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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,834	04/26/2006	Roberto A Macina	DEX-0532	8654
32800	7590	10/28/2008	EXAMINER	
LICATA & TYRRELL P.C. 66 E. MAIN STREET MARLTON, NJ 08053			AEDER, SEAN E	
			ART UNIT	PAPER NUMBER
			1642	
			NOTIFICATION DATE	DELIVERY MODE
			10/28/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

poreilly@licataandtyrrell.com

Office Action Summary	Application No. 10/523,834	Applicant(s) MACINA ET AL.	
	Examiner SEAN E. AEDER	Art Unit 1642	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 October 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 19, 21, 22, 25-27, 29, 30, 33 and 34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 19, 21, 22, 25-27, 29, 30, 33, and 34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The Amendments and Remarks filed 10/1/08 in response to the Office Action of 9/9/08 are acknowledged and have been entered.

Claims 19, 21, 22, 25-27, 29, 30, 33, and 34 are pending.

Claims 19 and 27 have been amended by Applicant.

Claims 19, 21, 22, 25-27, 29, 30, 33, and 34 are currently under examination.

The following Office Action contains NEW GROUNDS of rejections.

Rejections Withdrawn

All previous rejections are withdrawn.

New Rejections

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 19, 21, 22, 25, 27, 29, 30, and 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Barry et al (WO 01/71358 A1; 9/27/01).

Claim 19 encompasses monoclonal antibodies, or antigen binding fragments thereof, that compete for binding to an epitope bound by antibody that specifically binds the antigenic region of amino acids 90-97 of SEQ ID NO:265 (DSVYGLR). Claim 21 is drawn to the antibody, or antigen binding fragment thereof, of claim 19 wherein the antibody, or antigen binding fragment thereof, is a humanized antibody. Claim 22 is drawn to the antibody, or antigen binding fragment thereof, of claim 19, wherein the antibody, or antigen binding fragment thereof, is a chimeric antibody. Claim 25 is drawn to the antibody, or antigen binding fragment thereof, of claim 19 wherein the antibody, or antigen binding fragment thereof, is labeled. Claim 27 encompasses monoclonal antibodies, or antigen binding fragments thereof, that specifically bind to the antigenic region of amino acids 90-97 of SEQ ID NO:265 (DSVYGLR). Claim 29 is drawn to the antibody, or antigen binding fragment thereof, of claim 27 wherein the antibody, or antigen binding fragment thereof, is a humanized antibody. Claim 30 is drawn to the antibody, or antigen binding fragment thereof, of claim 27, wherein the antibody, or antigen binding fragment thereof, is a chimeric antibody. Claim 33 is drawn to the antibody, or antigen binding fragment thereof, of claim 27 wherein the antibody, or antigen binding fragment thereof, is labeled.

Barry et al teaches monoclonal antibodies and antigen binding fragments thereof that specifically bind the following fragment of osteopontin: SVYGLR (see paragraph flanking pages 27-28, in particular). Because the fragment of Barry et al is within amino acids 90-97 of instant SEQ ID NO:265, one of skill in the art would recognize that the antibody of Barry et al would specifically bind amino acids 90-97 of instant SEQ ID

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NO:265 and would compete for binding to an epitope bound by antibody that specifically binds the antigenic region of amino acids 90-97 of SEQ ID NO:265. Barry et al further teaches the antibody, or antigen binding fragment thereof, as a chimeric and humanized antibody (lines 16-23 on page 28, in particular). Barry et al further teaches the antibody, or antigen binding fragment thereof as labeled (line 15 on page 29, in particular).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 19, 21, 22, 25-27, 29, 30, 33, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barry et al (WO 01/71358 A1; 9/27/01) as applied to claims

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19, 21, 22, 25, 27, 29, 30, and 33 above, and further in view of Muller et al (US 2003/0118585 A1; filed 10/17/01).

Teaching of claims 19, 21, 22, 25, 27, 29, 30, and 33 by Barry et al is discussed above.

Barry et al does not specifically teach antibodies bound to a toxin. However, these deficiencies are made up in the teachings of Muller et al.

Muller et al teaches antibodies that specifically bind osteopontin would be conjugated to a toxin for the treatment of tumors (see paragraphs 50-51 and 91-92, in particular).

One of ordinary skill in the art at the time the invention was made would have been motivated to conjugate the osteopontin-specific antibodies of Barry et al with a toxin because Muller et al teaches antibodies that specifically bind osteopontin would be conjugated to a toxin for the treatment of tumors (see paragraphs 50-51 and 91-92, in particular). One of ordinary skill in the art at the time the invention was made would have had a reasonable expectation of success for conjugating the osteopontin-specific antibodies of Barry et al with a toxin because Muller et al teaches conjugating antibodies that specifically bind osteopontin to a toxin for the treatment of tumors (see paragraphs 50-51 and 91-92, in particular). Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made, absent unexpected results.

Summary

No claim is allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEAN E. AEDER whose telephone number is (571)272-8787. The examiner can normally be reached on M-F: 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on 571-272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sean E Aeder/
Examiner, Art Unit 1642

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